

Fig. 1A

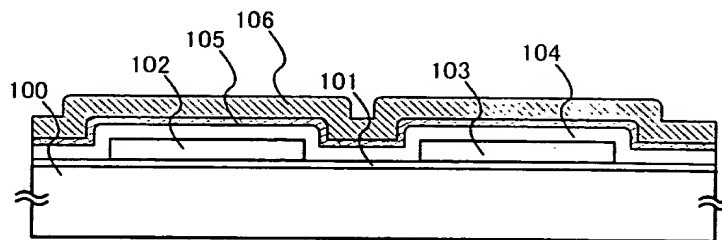


Fig. 1B

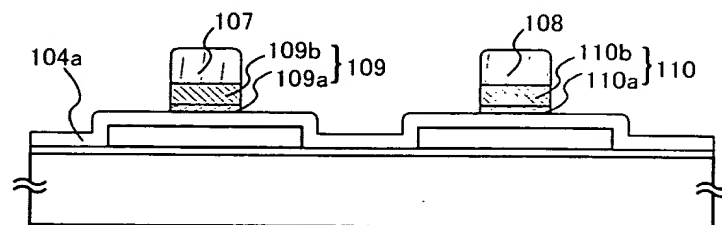


Fig. 1C

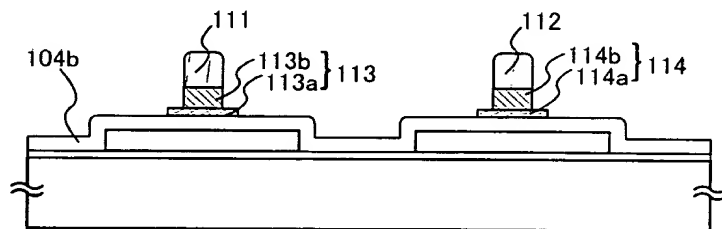


Fig. 1D

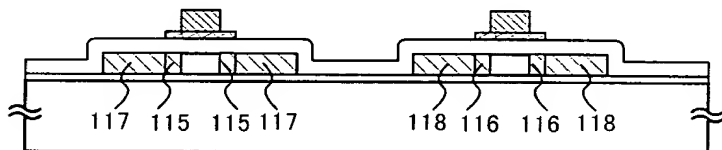


Fig. 1E

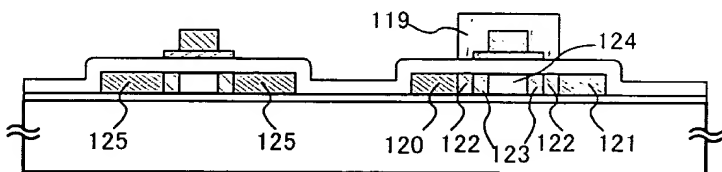
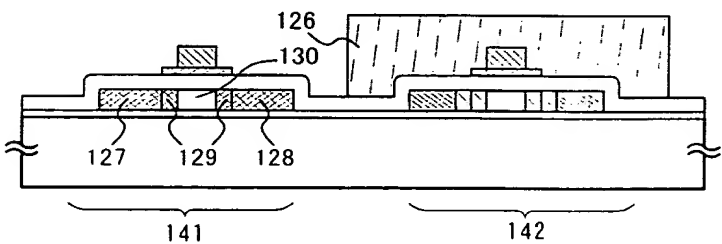


Fig. 1F



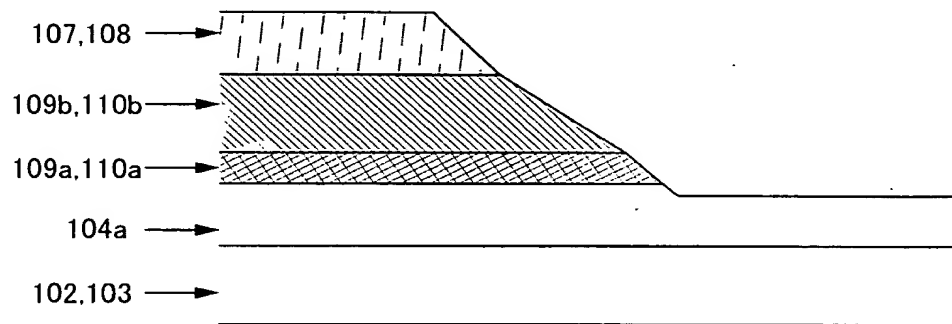


Fig. 2A

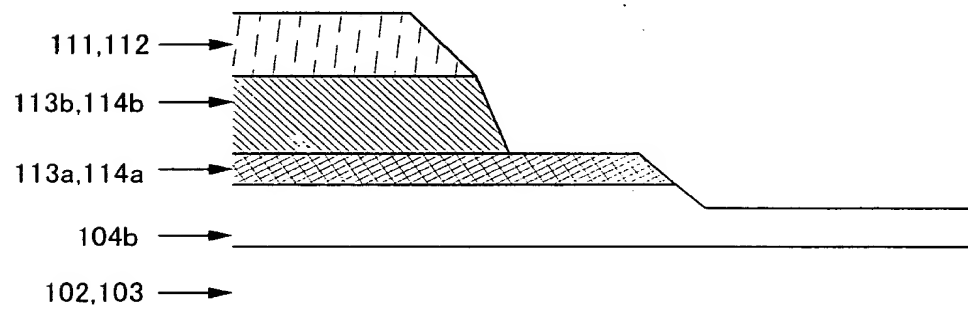


Fig. 2B

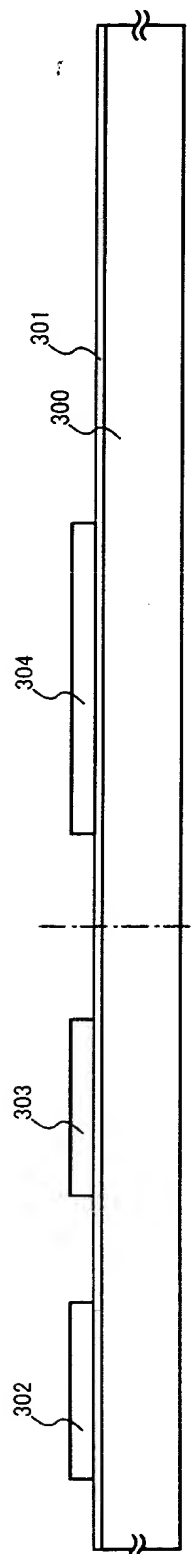


Fig. 3A

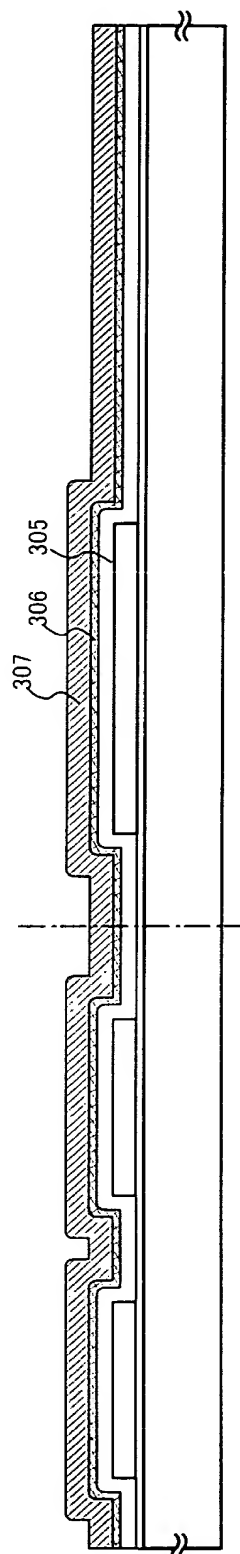


Fig. 3B

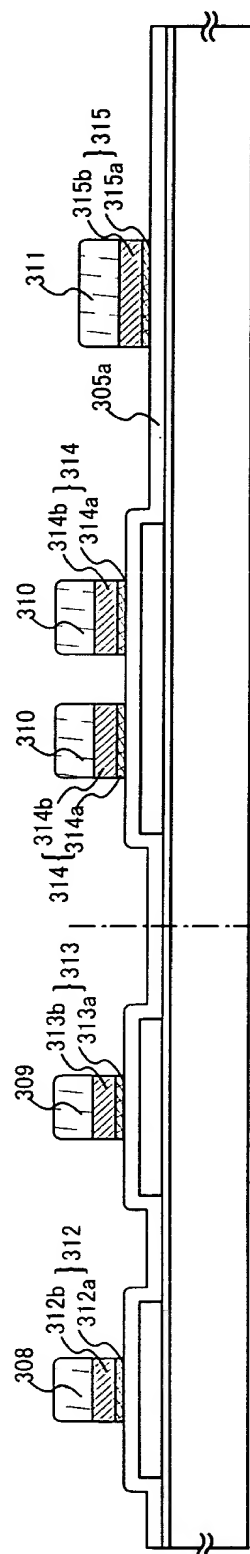


Fig. 3C

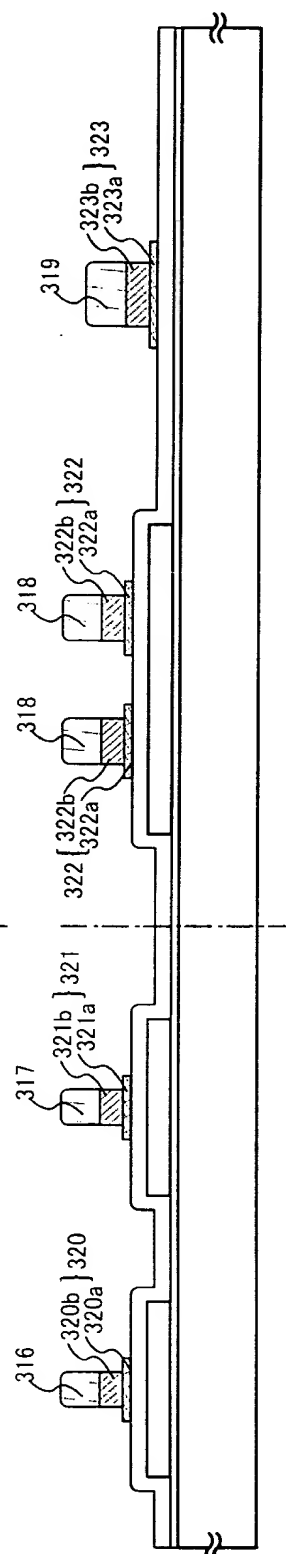


Fig. 3D

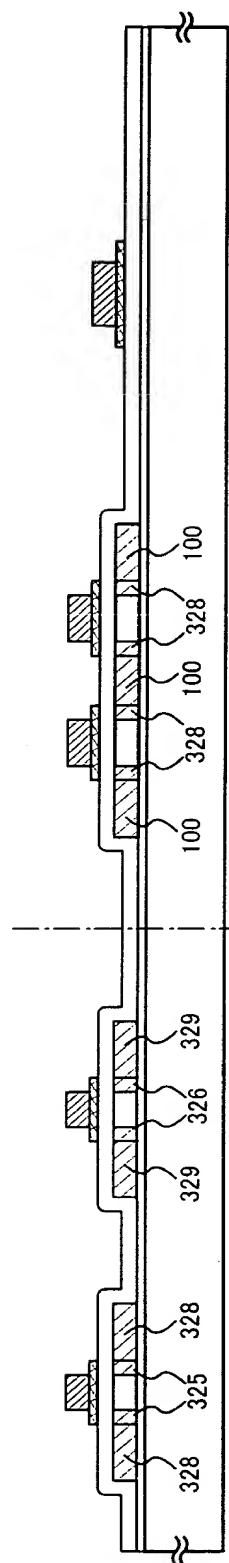


Fig. 4A

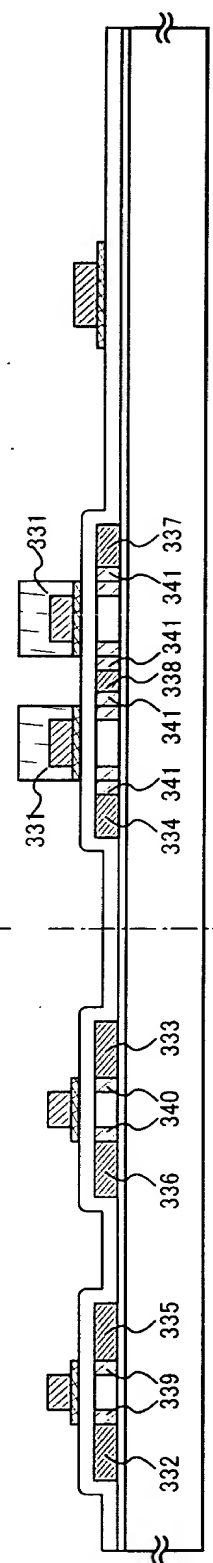


Fig. 4B

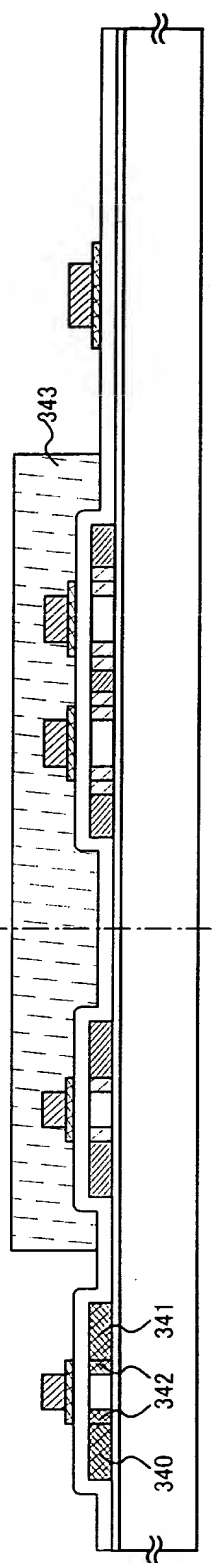


Fig. 4C

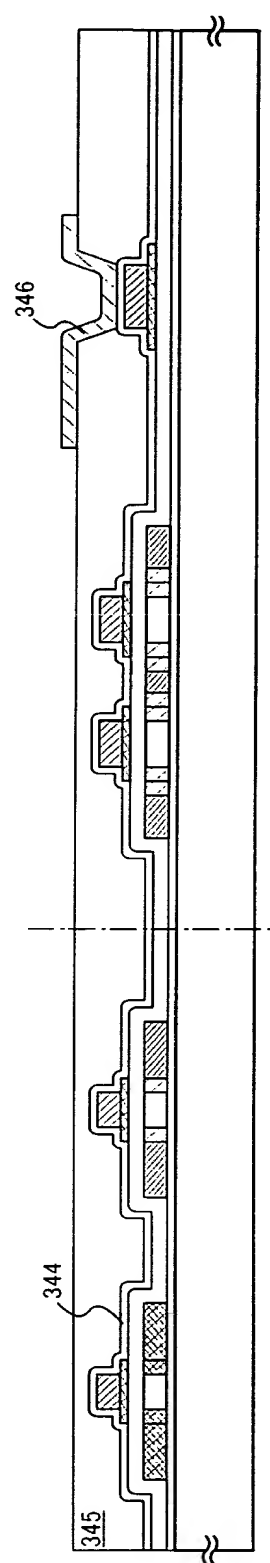


Fig. 4D

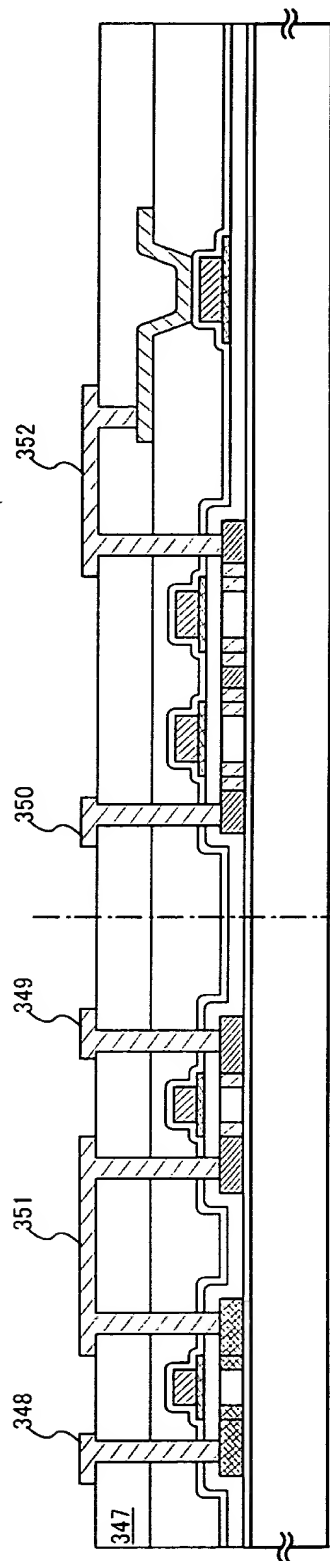


Fig. 5A

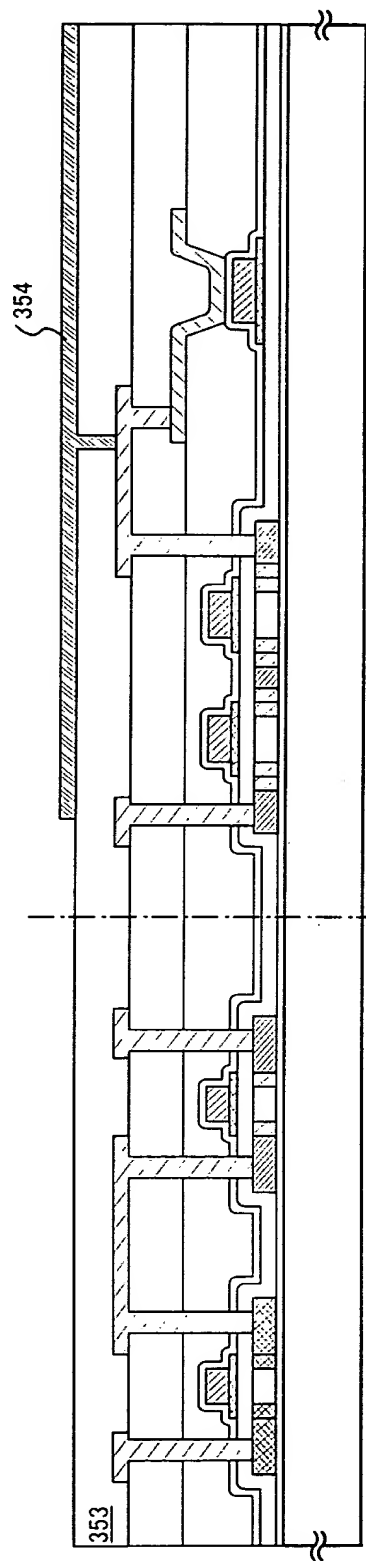


Fig. 5B

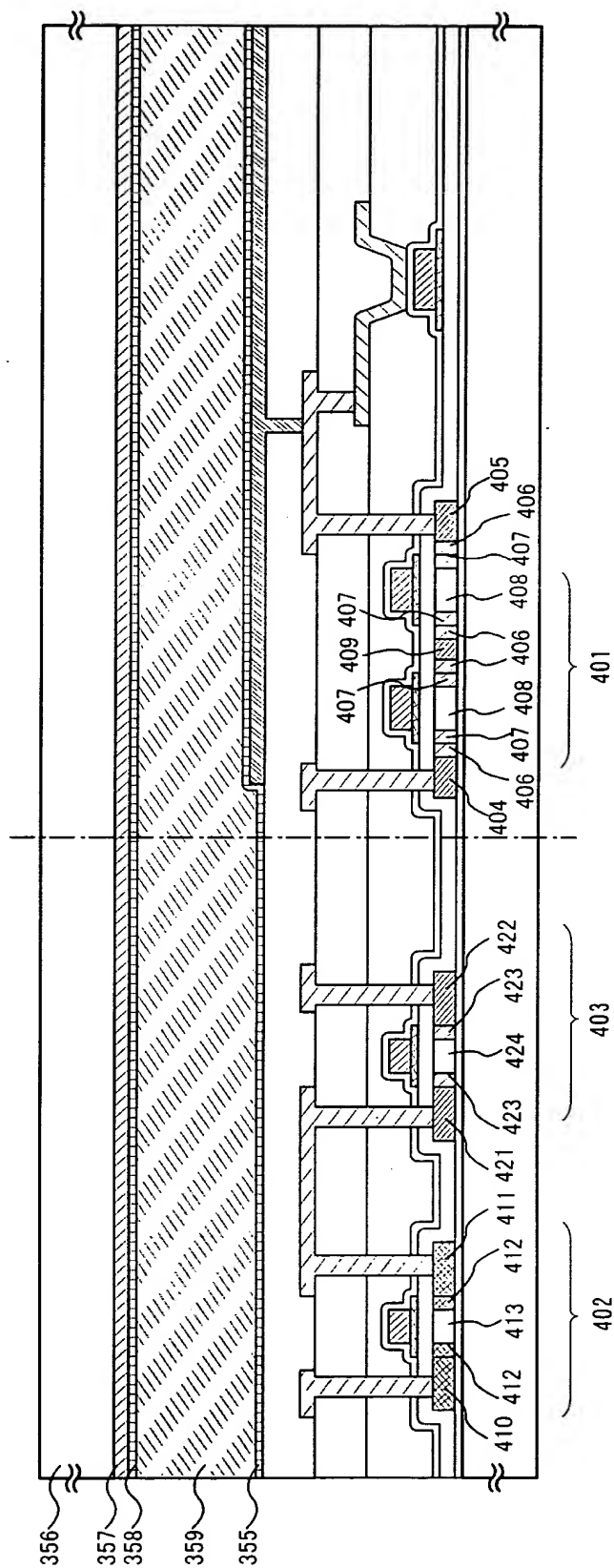


Fig. 6

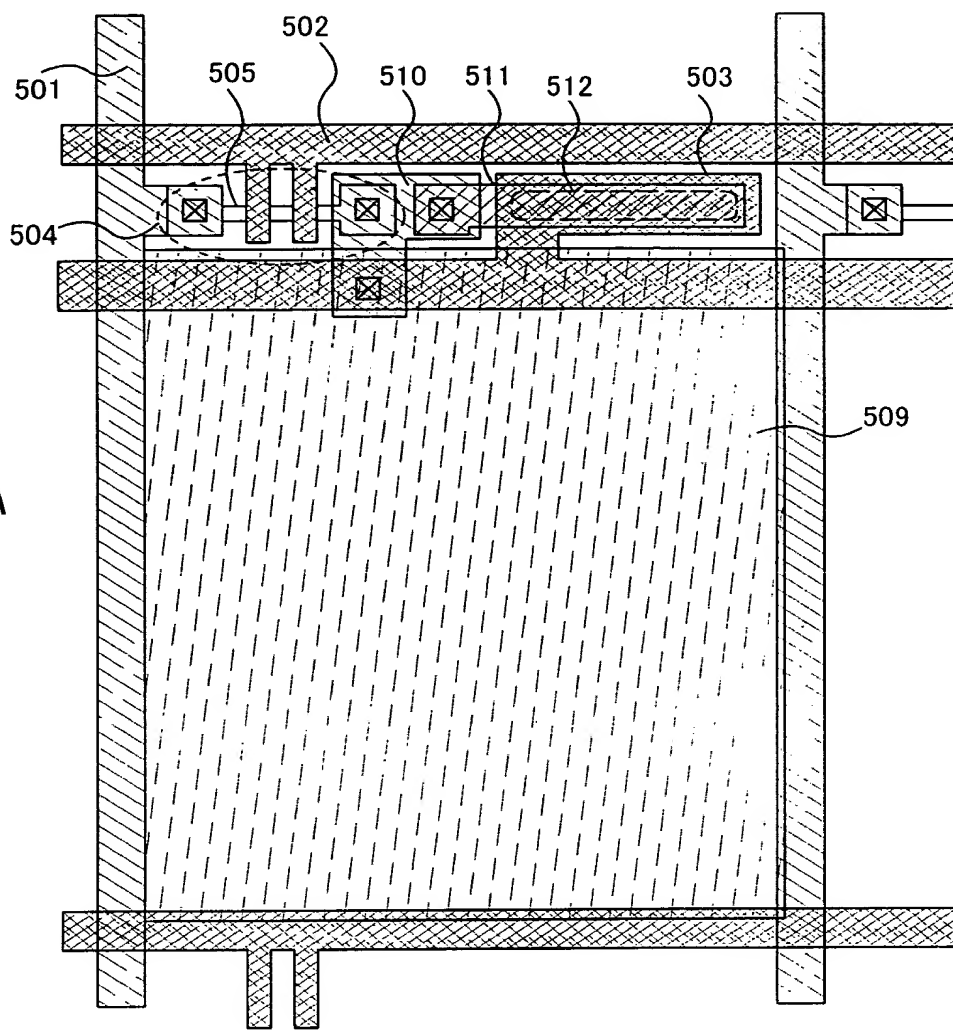


Fig. 7A

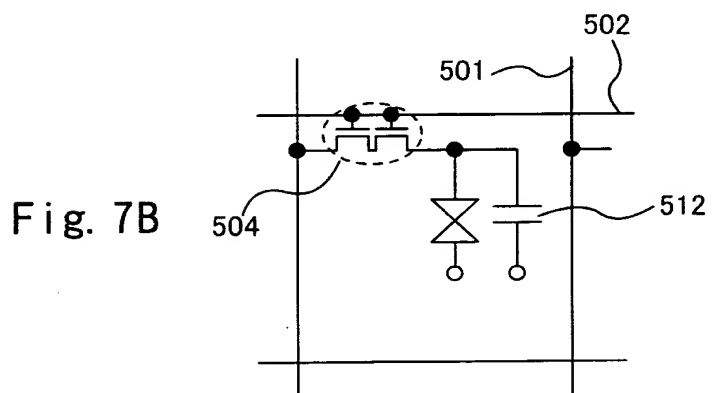


Fig. 7B

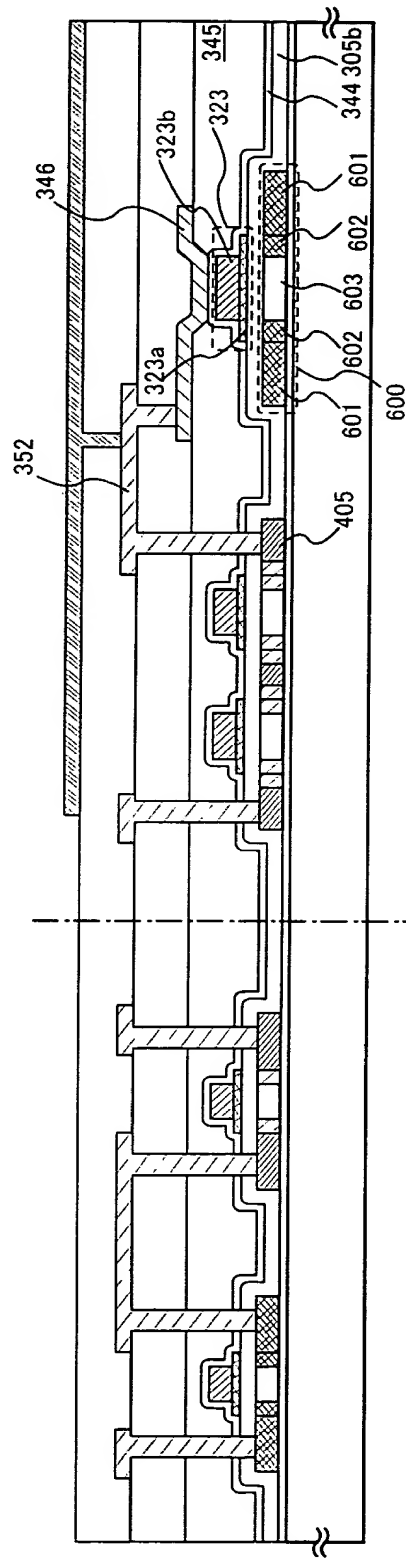


Fig. 8

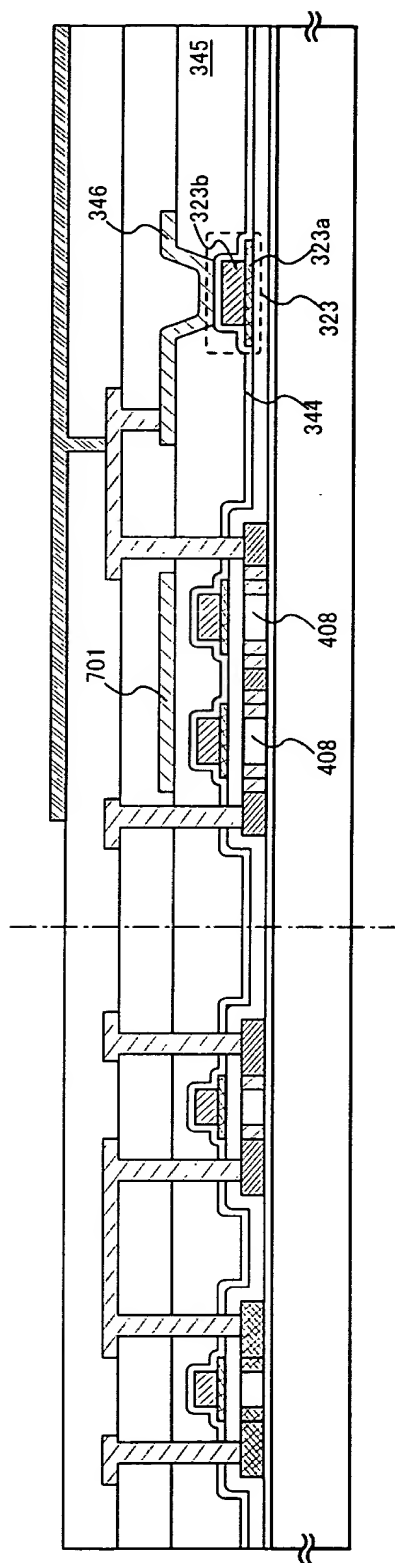


Fig. 9

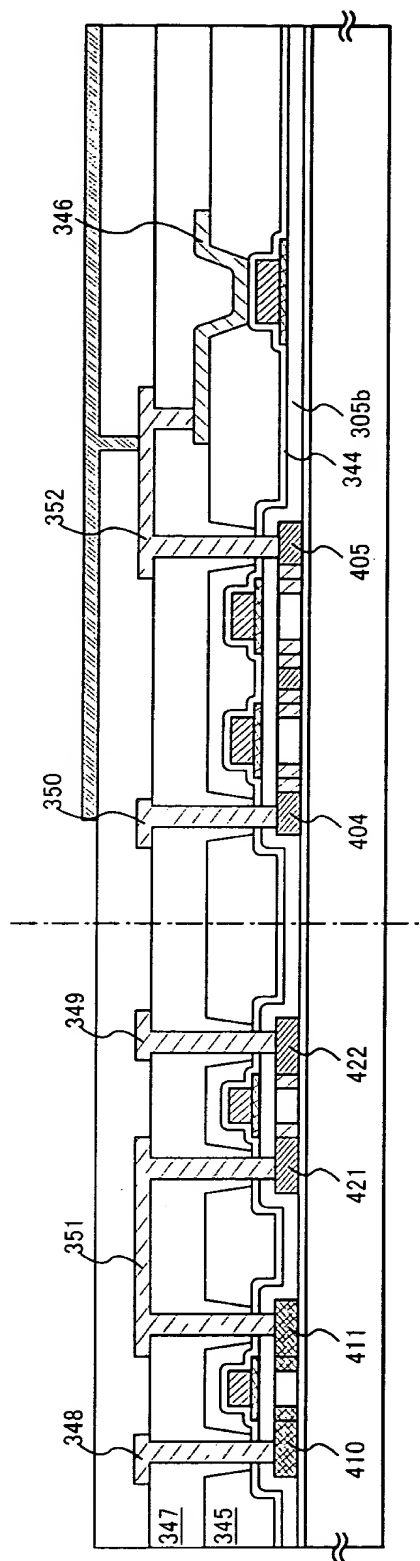


Fig. 10

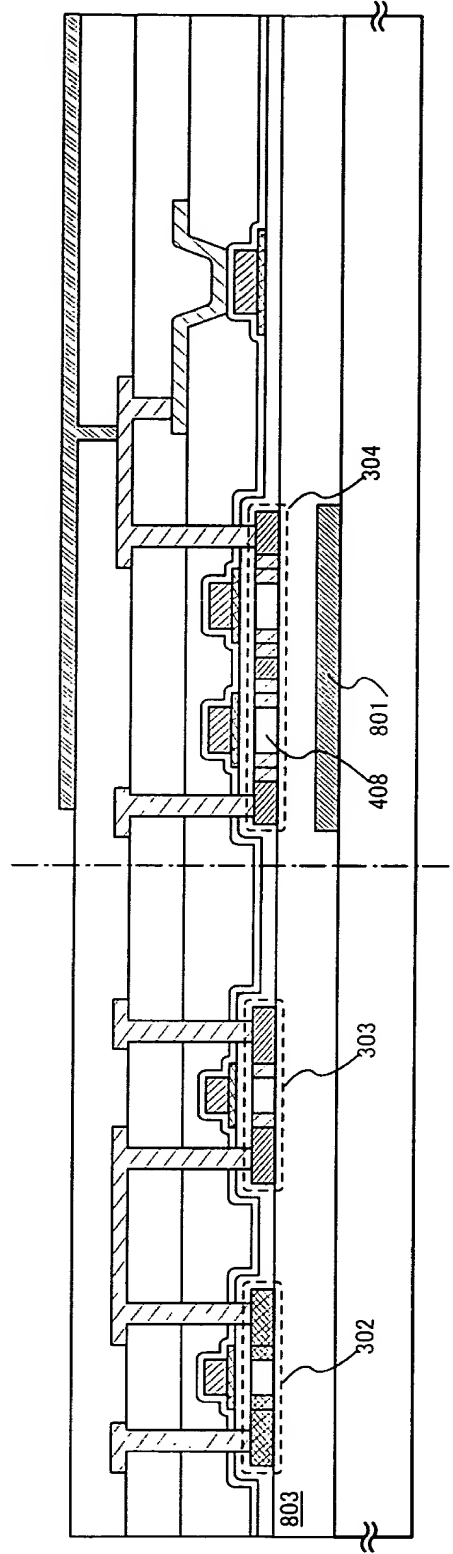


Fig. 11

Fig. 12A

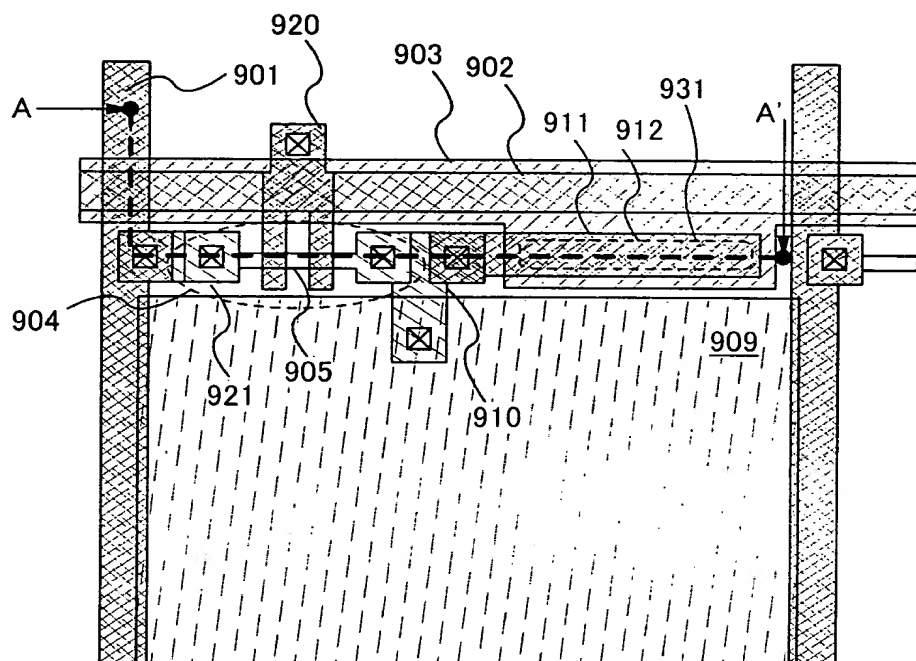
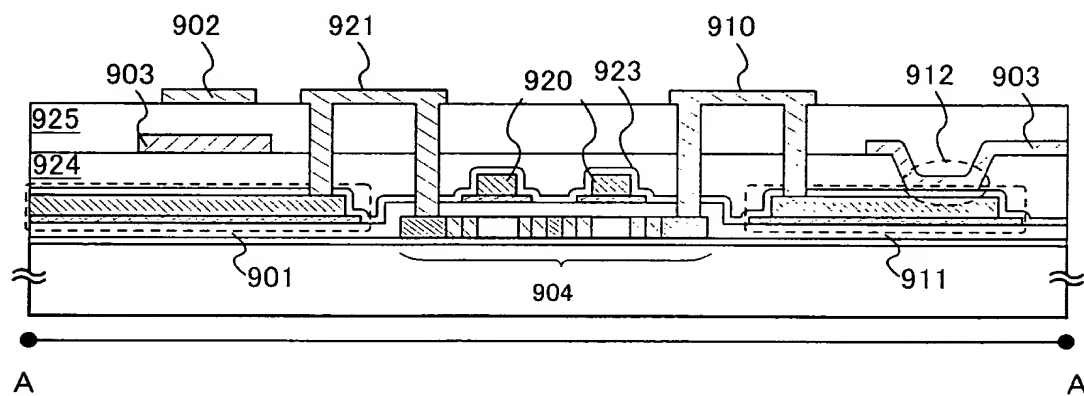


Fig. 12B



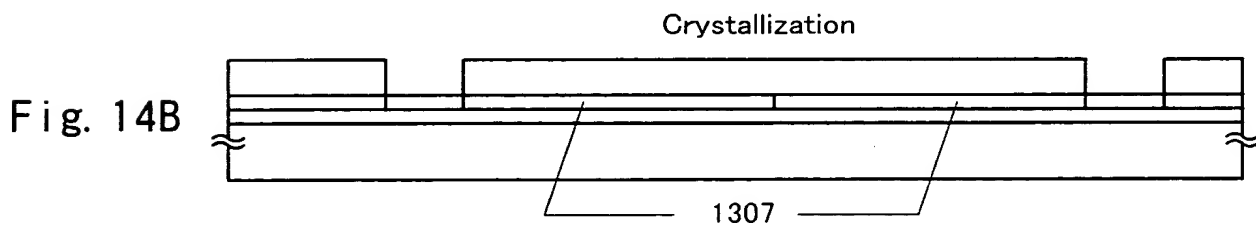
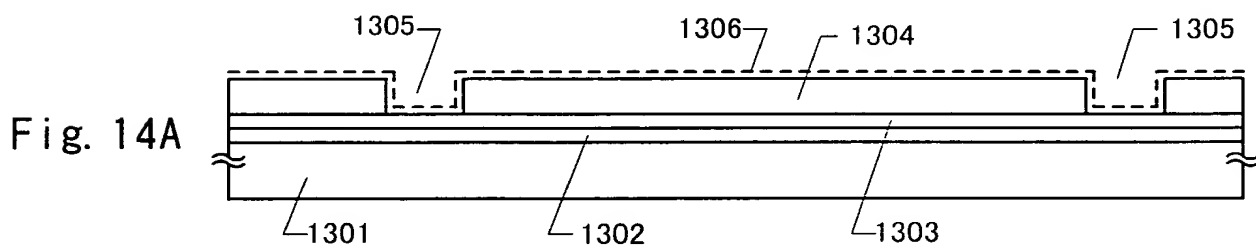
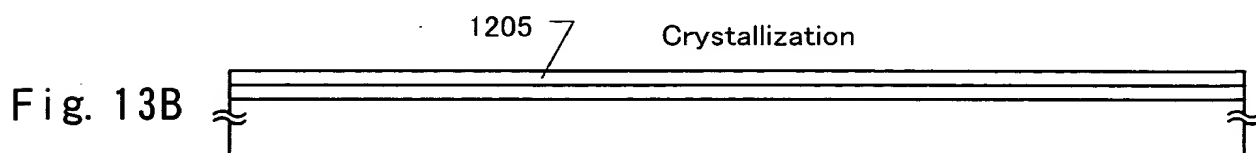
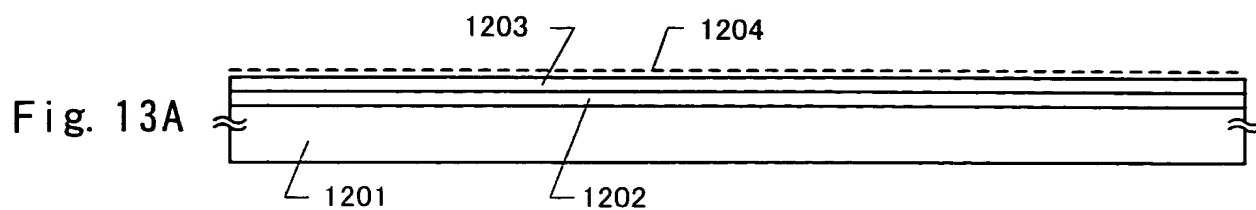


Fig. 15A

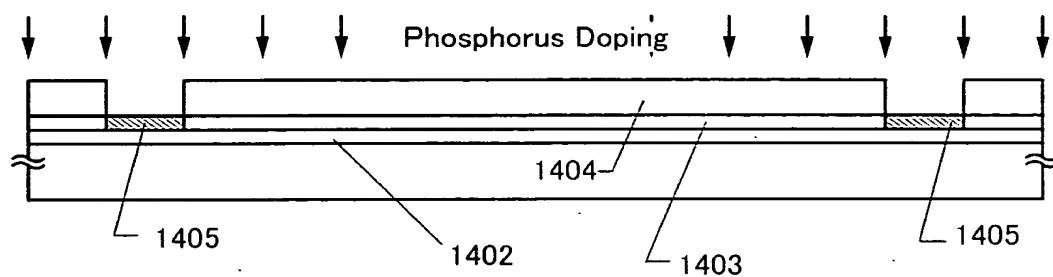
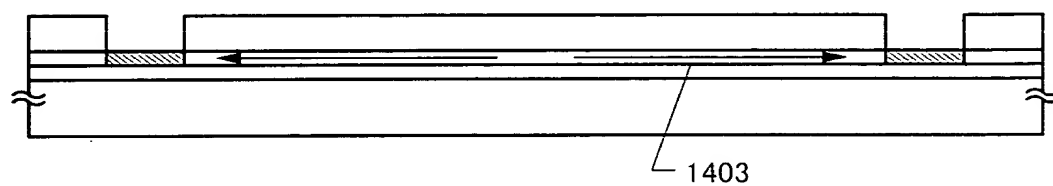


Fig. 15B



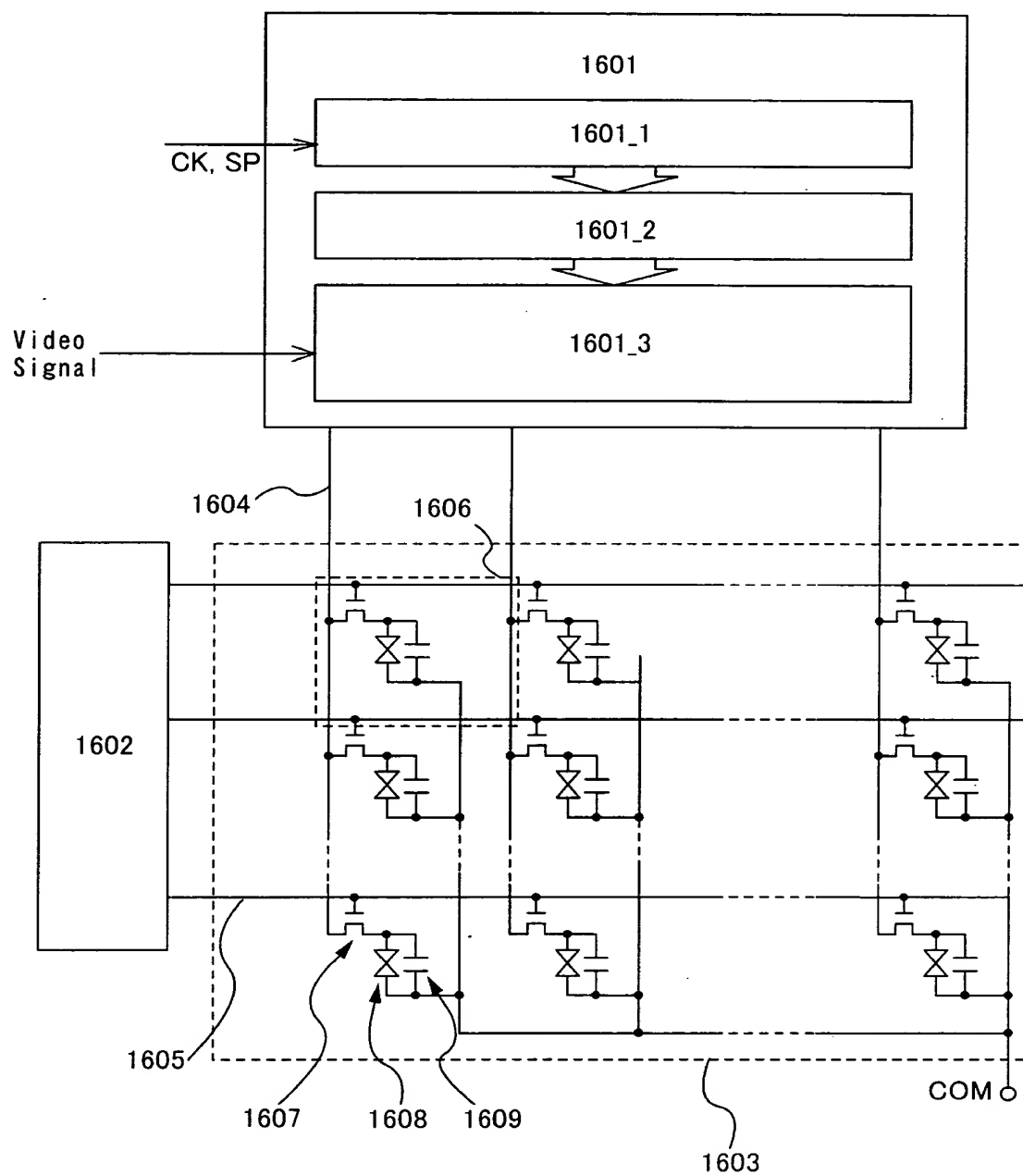


Fig. 16

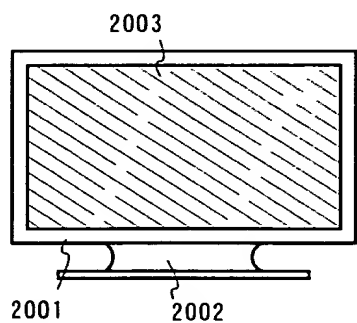


Fig. 17A

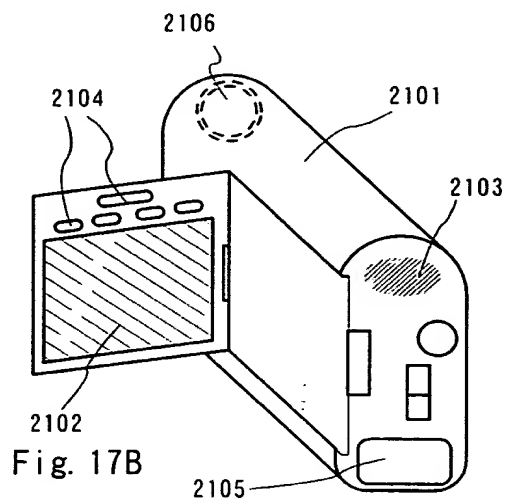


Fig. 17B

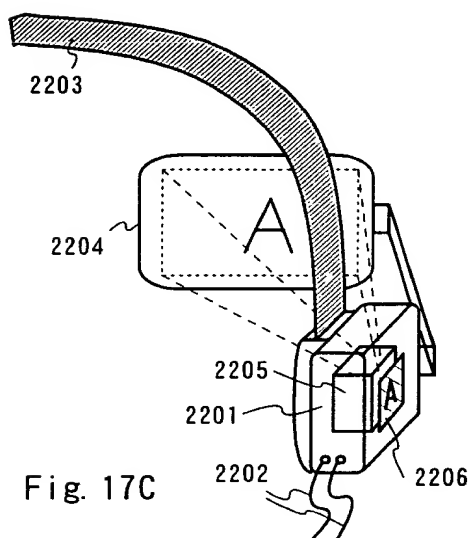


Fig. 17C

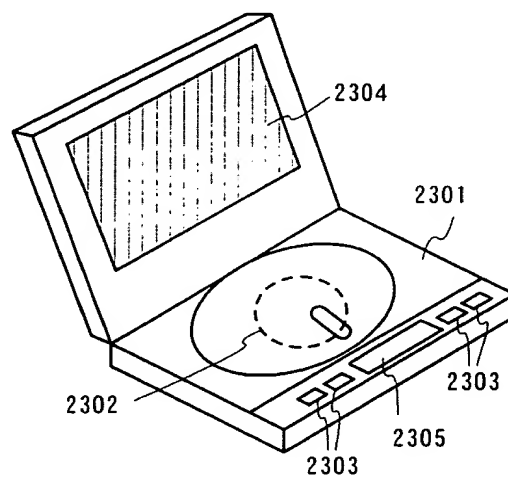


Fig. 17D

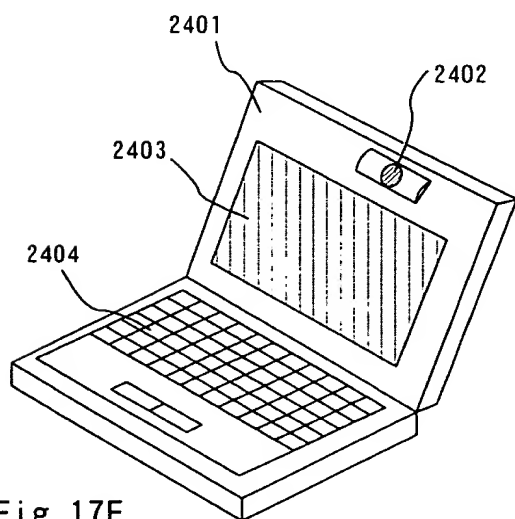


Fig. 17E

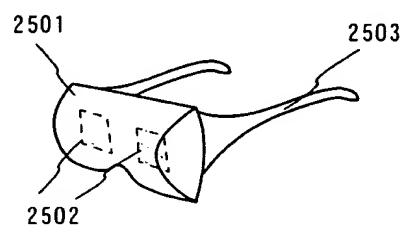


Fig. 17F

Fig. 18A

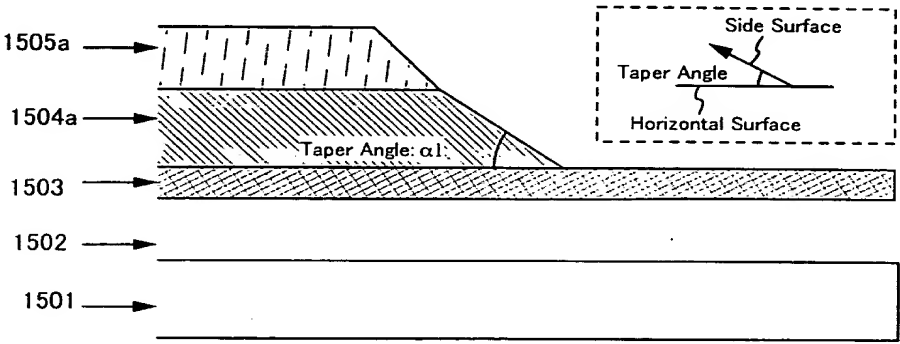


Fig. 18B

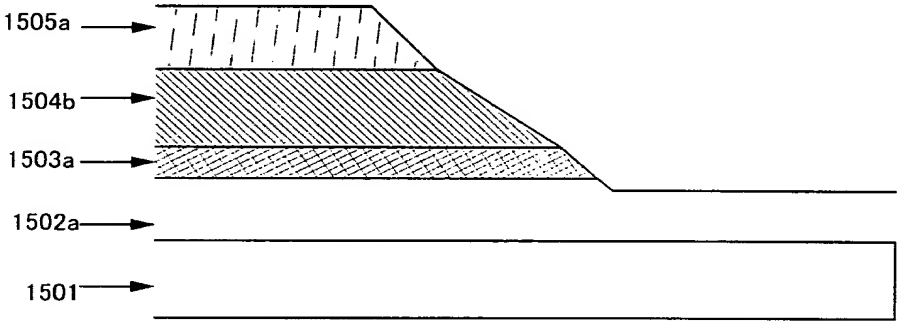


Fig. 18C

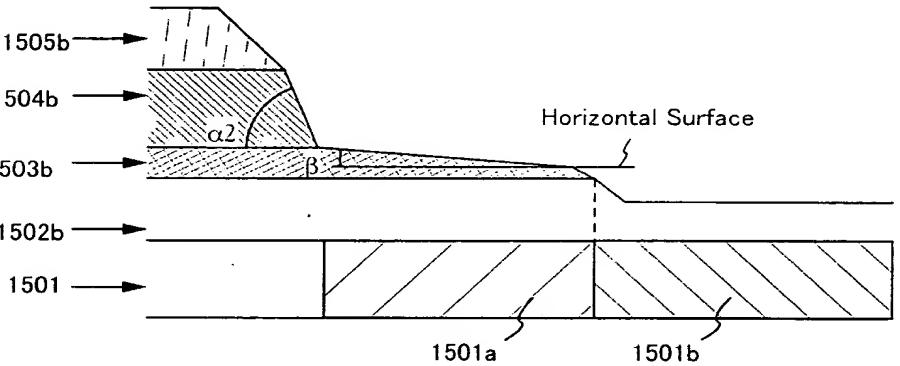


Fig. 18D

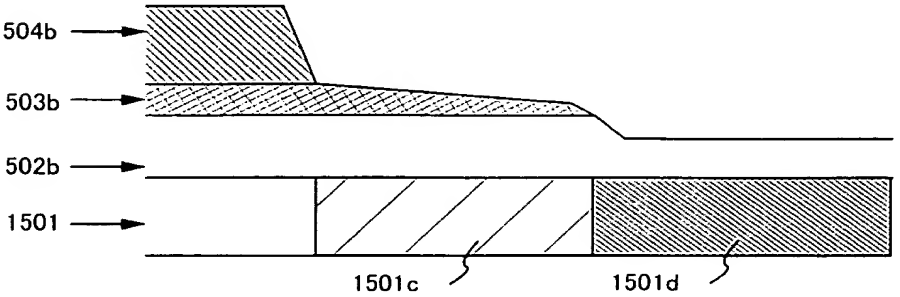


Fig. 19A

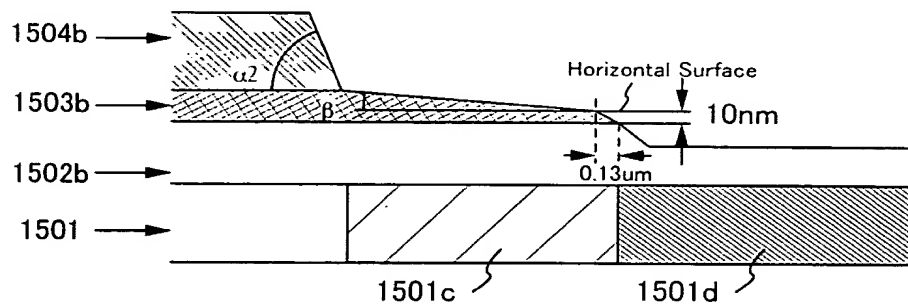
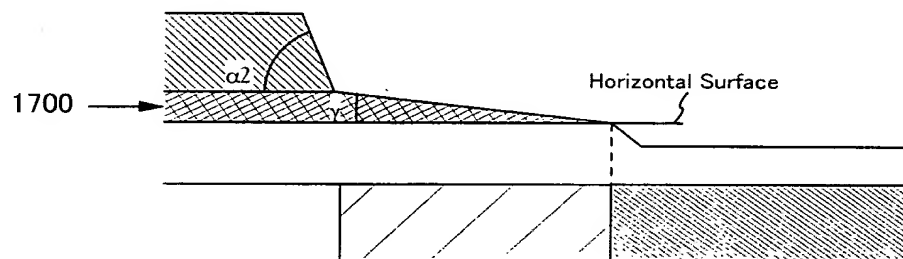


Fig. 19B



RELATIONSHIP OF TAN FILM THICKNESS, LOW LENGTH AND
ELECTRON TEMPERATURE (SHAPE A)

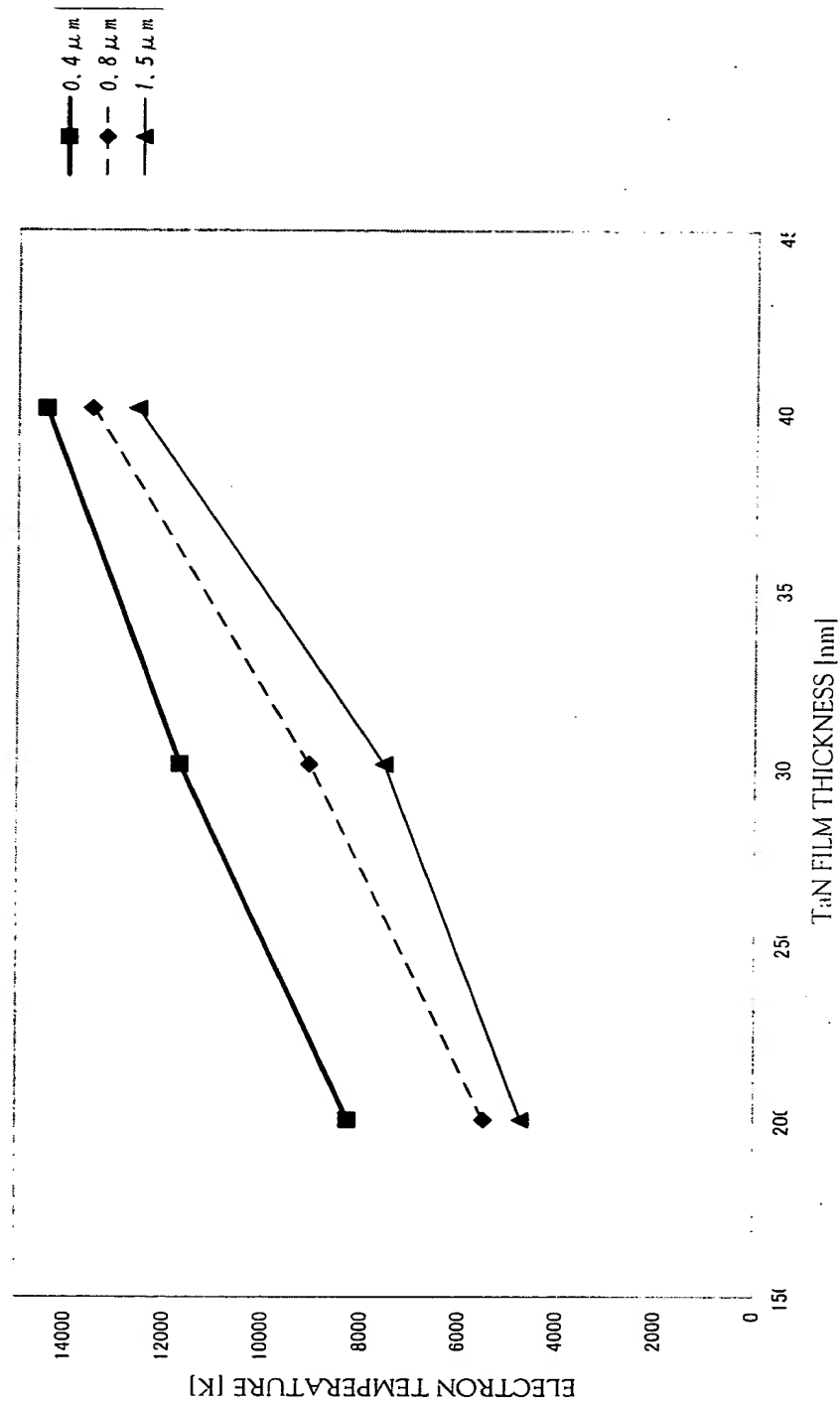


Fig. 20

RELATIONSHIP OF $T_{\text{a}}N$ FILM THICKNESS, L_{ov} LENGTH AND
ELECTRON TEMPERATURE (SHAPE B)

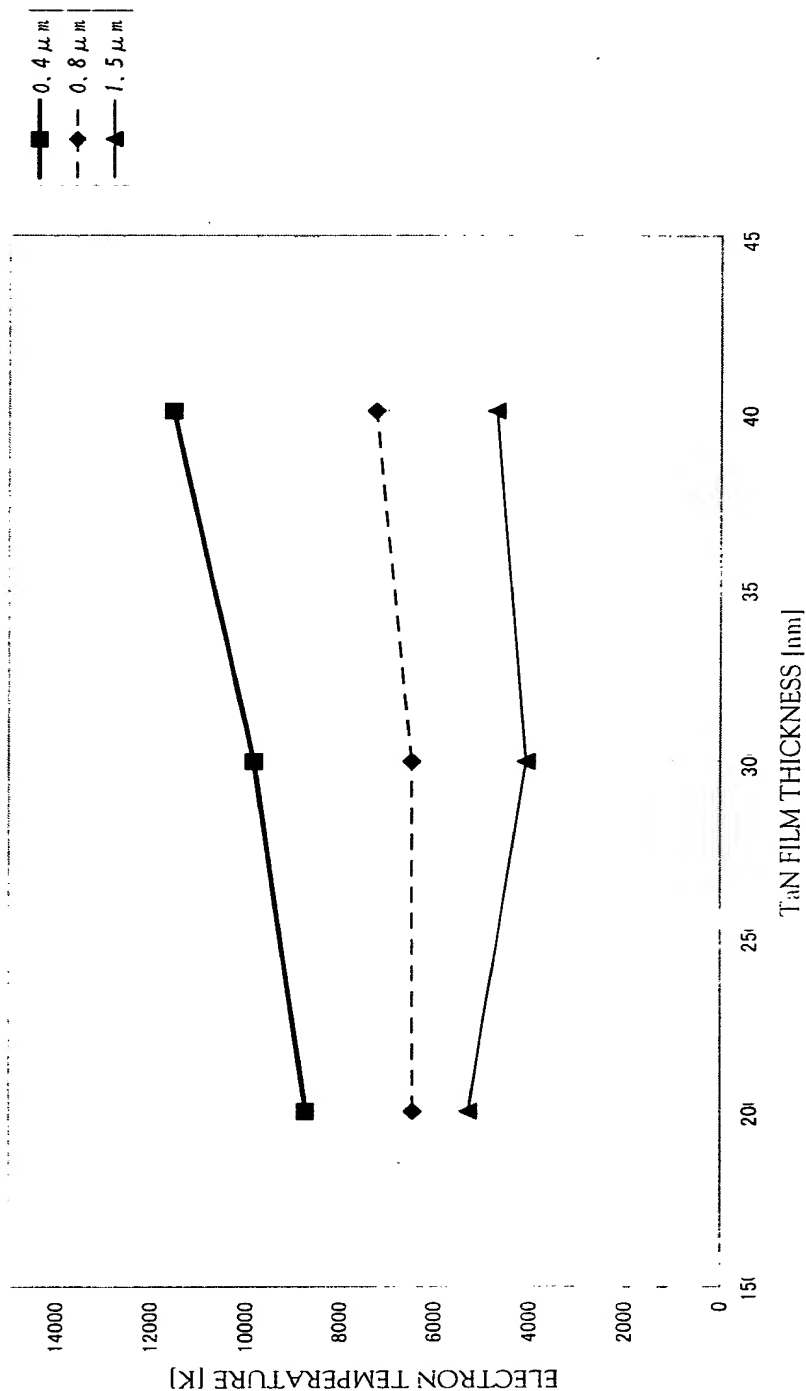


Fig. 21

COMPARISON OF ELECTRON TEMPERATURE AND ELECTRIC FIELD STRENGTH
IN CHANNEL LONGITUDINAL DIRECTION IN SHAPE B (TaN FILM THICKNESS 30 nm)

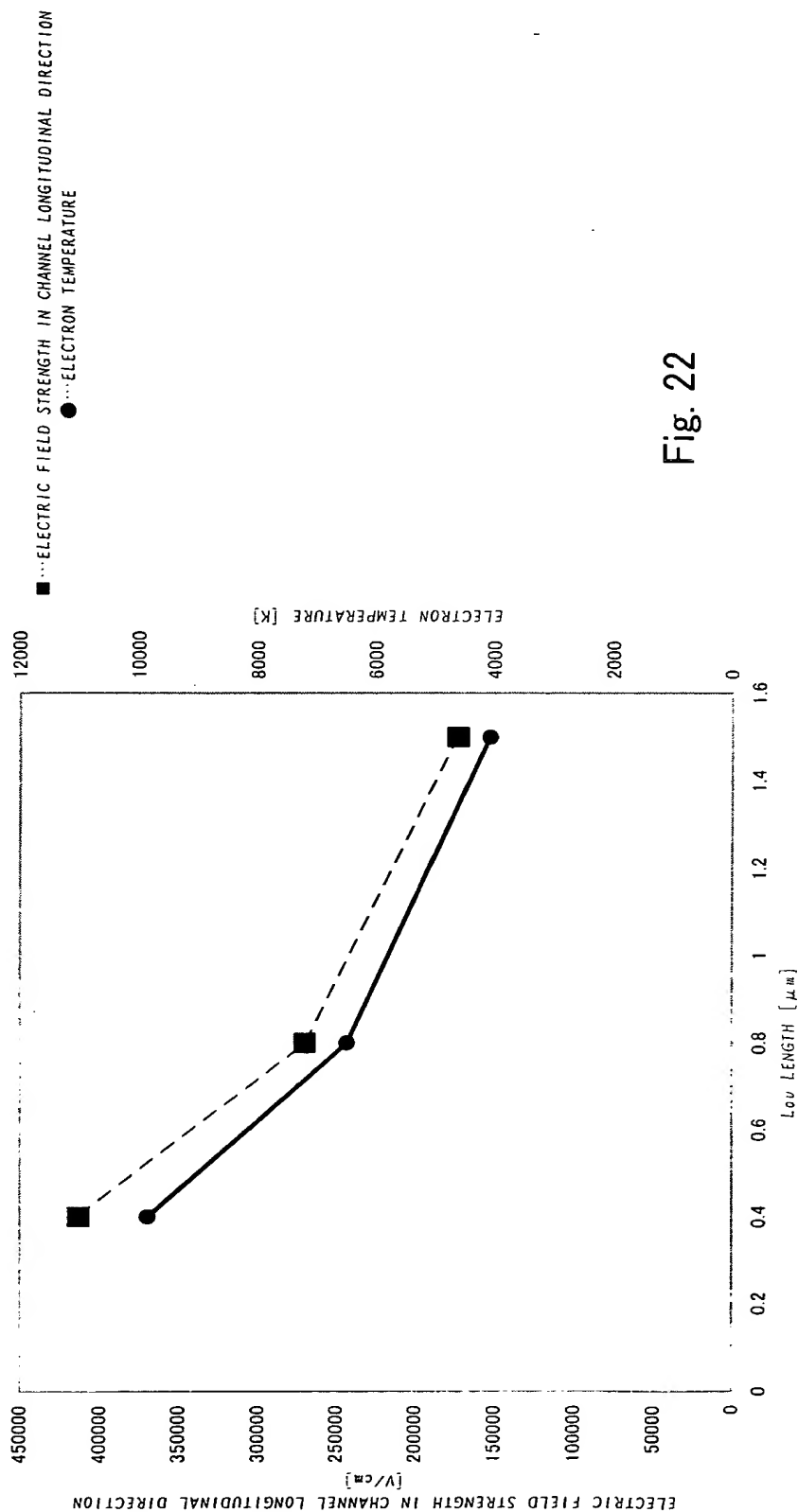
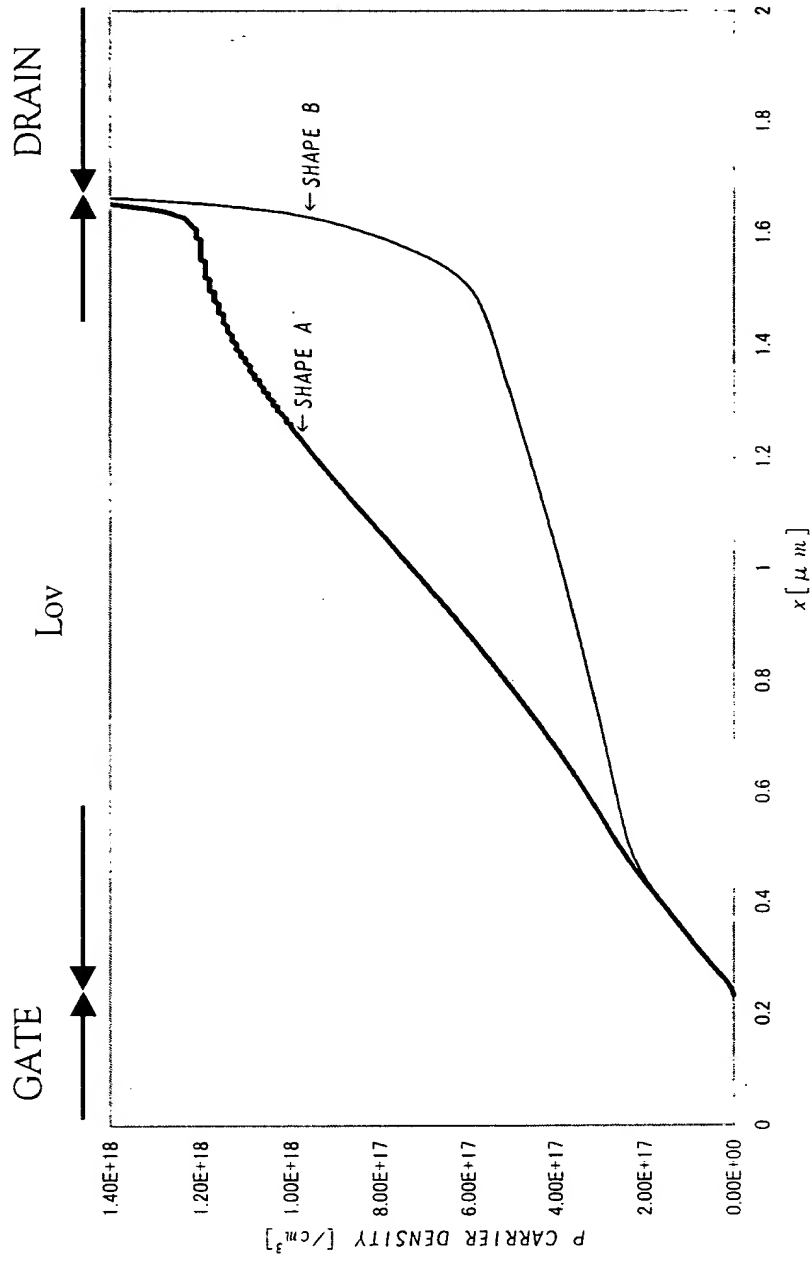


Fig. 22



RELATIONSHIP OF TaN SHAPE AND CARRIER DENSITY DISTRIBUTION

(P LIGHT DOPE 6.7E13/cm²)

Si DEPTH 10 nm POINT

Fig. 23